The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 through 9 Cancelled

- 10. (Currently Amended) A semiconductor device comprising:
- a silicon substrate forming one of a collector and an emitter, the substrate being of a first conductivity type;
- a layer of SiGe of a second conductivity type covering at least a portion of the silicon substrate;
- a first layer of silicon of the second conductivity type at least substantially supported by and covering a substantial portion of the SiGe layer;
- a first layer of polysilicon of the second conductivity type at least substantially supported by and covering a substantial portion of the [SiGe] first layer of silicon with the exception of a window region, the first layer of [SiGe] silicon having its surface unaffected by a process of etching within the window region, the first layer of [polysilicon] silicon forming a base terminal of the transistor; and,
- a second layer of polysilicon of the first conductivity type [covering and contacting] insulated from the first layer of polysilicon and contacting the unetched first layer of silicon within the window region [unetched SiGe layer of the transistor], said second layer of polysilicon forming the other of the collector and the emitter terminals of the transistor.
- 11. (Currently Amended) A semiconductor device as defined in claim 10 wherein the silicon substrate [is] comprises n-type material and forms the collector.
- 12. (Currently Amended) A semiconductor device as defined in claim 11 wherein the layer of SiGe [is] comprises p-type material, and wherein the second layer of polysilicon [is] comprises n-type material and forms the emitter.



- 13. (Currently Amended) A semiconductor device comprising:
- a silicon layer of a first conductivity type;
- a layer of SiGe of a second conductivity type covering at least a region of the silicon layer; and,
- a first layer of silicon of the second conductivity type at least substantially supported by and covering a substantial portion of the silicon and SiGe layer;
- a first layer of polysilicon of the second conductivity type at least substantially supported by and covering a substantial portion of the [SiGe] <u>first</u> layer <u>of silicon</u> with the exception of a small window <u>region</u>; and,
- a second layer of <u>poly</u>silicon of the first conductivity type covering the window region and contacting the [SiGe] <u>first</u> layer <u>of silicon</u> within this small window <u>region</u>, where the [SiGe] <u>first</u> layer <u>of silicon</u> within the window region has a surface unaffected by a process of etching.
- 14. (Original) A semiconductor device as defined in claim 13, wherein the silicon layer serves as a substrate and is substantially thicker than the layer of SiGe.
- 15. (Original) A semiconductor device as defined in claim 13 wherein the SiGe layer has a substantially uniform thickness.
- 16. (Currently Amended) A semiconductor device as defined in claim 13 wherein the thickness of the SiGe layer covered by the [second] <u>first</u> layer of silicon is of a substantially [a] same thickness and impurity concentration as the remaining portion of the layer of SiGe covering at least a region of the silicon layer.
- 17 through 21 Cancelled
- 22. (Currently Amended) A semiconductor device according to claim 10, comprising an insulating material disposed [layer] between the two layers of polysilicon.



- 23. (Currently Amended) A semiconductor device according to claim 22, wherein the disposed insulating [layer] material is formed by reacting the first layer of polysilicon with a substance to form an insulating cover thereon.
- 24. (Currently Amended) A semiconductor device according to claim 22, wherein the <u>disposed</u> insulating [layer] <u>material</u> is formed by depositing an insulating material thereon.
- 25. (Currently Amended) A semiconductor device as defined in claim 10, wherein the first layer of silicon and the SiGe layer [has] have a substantially uniform thickness.
- 26. (Original) A semiconductor device as defined in claim 10, wherein the thickness of the SiGe layer covered by the second layer of polysilicon is of a substantially a same thickness and impurity concentration as the remaining portion of the layer of SiGe covering at least a region of the silicon layer.
- 27. (Currently Amended) A semiconductor device according to claim 13, comprising an insulating material disposed [layer] between the two layers of polysilicon
- 28. (Currently Amended) A semiconductor device according to claim 27, wherein the <u>disposed</u> insulating <u>material</u> [layer] is formed by reacting the first layer of polysilicon with a substance to form an insulating [cover] <u>film</u> thereon.
- 29. (Currently Amended) A semiconductor device according to claim 27, wherein the <u>disposed</u> insulating <u>material</u> [layer] is formed by depositing an insulating material thereon.
- 30. (Currently Amended) A semiconductor device comprising:



- a silicon substrate forming one of a collector and an emitter, the substrate being of a first conductivity type;
- a layer of SiGe of a second conductivity type covering at least a portion of the silicon substrate;
- a first layer of silicon of the second conductivity type at least substantially supported by and covering a substantial portion of the SiGe layer;
- a first layer of polysilicon of the second conductivity type at least substantially supported by and covering a substantial portion of the [SiGe] first layer of silicon with the exception of a window region, the first layer of [SiGe] silicon having its surface unaffected by a process of etching within the window region, the first layer of [polysilicon] silicon forming a base terminal of the transistor; and,
- a second layer of polysilicon of the first conductivity type [covering and contacting] insulated from the first layer of polysilicon and contacting the unctched first layer of silicon within the window region [SiGe layer of the transistor], said second layer of polysilicon forming the other of the collector and the emitter terminals of the transistor, wherein the first silicon layer [SiGe] layer has a [controllable] uniform thickness profile in a direction transverse the layers within the semiconductor substrate within predetermined limits within a region of the semiconductor substrate including at least a transistor, the [controllable] uniform thickness profile for providing substantially reproducible results for the thickness of the first silicon layer [SiGe] layer.
- 31. (Currently Amended) A semiconductor device as defined in claim 30, wherein the [controllable] uniform thickness profile provides substantially reproducible electrical characteristics of the first silicon layer and the SiGe layer.
- 32. (Currently Amended) A semiconductor device as defined in claim 31, wherein the uniform [controllable] thickness profile of the SiGe layer is other than a uniformly thick layer.



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